

INVENTOR PLANNING HYDROGEN-POWERED CAR

Los Angeles, 20 April — Sam Leslie Leach, the inventor of a controversial process that he contends can economically separate the hydrogen and oxygen in water, says he has refined his design and begun building a system that will be capable of running an automobile on hydrogen derived from water.

Mr Leach's invention has been the subject of both mystery and controversy since he said in 1976 that he had devised an economically efficient means of splitting water, a contention that promised a cheap source of hydrogen as a replacement for fossil fuel.

Mr Leach, a multimillionaire professional inventor who has several basic patents in the field of optics, has been trying to interest the federal government and industry in his concept for more than three years, but has been largely ignored.

For the most part, scientists have ridiculed the concept, arguing that it violated basic laws of physics. Any system of splitting water, they contend, has to consume more energy than it produces.

Positive Evaluation

Mr Leach has refused to discuss the details of his system or how it purportedly works. But last spring an innovation research centre at the University of Oregon, financed by the National Science Foundation, evaluated part of the technology over a period of two weeks and concluded that, based on its analysis, it did not violate the laws of physics or thermodynamics.

The centre said that the process appeared to be technically sound and have commercial potential, but its report did not dampen scepticism in the scientific community.

Two critics of the system, Howard Riese and Donald Bunker, both professors at the University of California, argued, for example, that it was impossible for such a system to work as Mr Leach contends because, in effect, it would be a "perpetual motion machine". The inventor denies such a characterisation.

In an interview, Mr Leach said that he had declined to make public any details

until he had protected his rights to the process. Last fall, he received a patent on some elements of the process. Last week, a second was issued by the United States Patent Office. After its issuance he agreed to give some details of how the system purportedly works.

How System Operates

In its simplest terms, he said, the process utilises a laser-like device to generate ultraviolet radiation that photochemically splits steam into oxygen and hydrogen. It then utilises the electrostatic forces that normally bind electrons and protons in water vapour (and which are released in the water-splitting action) to maintain the reaction.

In 1922, Niels Bohr, the Danish theoretical physicist, first defined the electrostatic forces that bind electrons and protons as "extranuclear" energy. Mr Leach's contention that he has found a way to use the energy in the way he describes is likely to evoke additional scepticism from other scientists.

But he asserts that the process he utilises to maintain the water-splitting action is identical with one observed by astronomers in energy interactions that occur in gaseous nebulae, the great masses of interstellar gas that absorb ultraviolet radiation from stars and re-emit it as visible light. The following is a more detailed account of how Mr

Leach says the system works:

The reaction is started with an input of electrical energy from outside the system, from a battery or electric line. This energy is converted, by using an "optical pump" and other components, into large amounts of ultraviolet radiation of a specific wavelength that is precisely tailored to ionise hydrogen and oxygen molecules in the steam that has been fed into a tubular reaction chamber.

The chamber is flooded with the radiation. During the ionisation, electrons are momentarily liberated from their atoms and molecules.

Ionisation and Radiation

Microseconds later they are recaptured and recombined with the proton or nucleus of the atom. At this point, the energy that was required to ionise it reappears and radiates away.

This radiation then ionises another molecule. Very soon a chain reaction begins that involves millions of molecules and atoms.

The process's concept, Mr Leach said, manipulates the recombination of electrons and protons as hydrogen and oxygen instead of water vapour. Some of the hydrogen, he said, can be used to generate electricity to continue the initial input to the process and, in effect, be SELF-SUSTAINING AS LONG AS WATER IS



Samerville

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tally by this method, a great number of tumors. These had various degrees of development. Some of them dry up partially, but do not die entirely until the entire plant or at least the limb bearing the tumour dies.

Even removed by surgical methods, these tumors grew again on the sick limb."

THE RADIO-CELLULO-OSCILLATOR

"We propose to describe in this paper the action of electromagnetic waves of very high frequency obtained by means of the Radio-Cellulo-Oscillator of Georges Lakhovsky.

This apparatus produces wavelengths of the order of two metres and less, corresponding to 150 million cycles per second.

A first plant was submitted to the effect of the radiation one month after being inoculated with cancer; at this time, small tumours of the size of a cherry stone were visible upon it. This plant was submitted to the rays twice, for three hours each time.

During the following days, the tumours continued to grow rapidly in the same ways as those on plants, which had not been submitted to the effect of radiations. However, 16 days after the first treatment, the tumours began to shrink and dry up.

A few days later, the tumours were entirely dried up and could be very easily detached from the limb of the plant by merely touching them.

The drying action of the radio frequency radiations is selective and affects only the sick part of the plant.

Even the inside sick tissues were destroyed, although they were next to healthy cells in the centre of the limb, showing that the radiations had not affected the healthy parts."

THE LENGTH OF TREATMENT

"Another plant was treated in the same way, except that it was exposed 11 times, for three hours each time, to the radiations of the oscillator.

Sixteen days after the first exposure, the tumours, which were rather large, began to shrink and dry up and were easily detached from the limb exactly as in the first case.

Again in this case, the healthy parts of the plant were not affected in the least.

A third plant exposed to the radiations for nine hours, that is, three treatments of three hours each, was cured in the same manner as the two others.

Sixteen plants, also inoculated with can-

cer, were left without treatment. They have tumours in full activity, several of which are very large.

These experiments show conclusively that plants inoculated with cancer can be treated and cured by means of the ultra radio frequency vibrations, whereas surgical treatment fails."

In conclusion, I wish to call the attention of the reader to the fact that I have obtained very conclusive results not only with a wavelength of two metres, but with longer and shorter wavelengths. The main thing is to produce the greatest number of harmonics possible.

Such are the results of my researches with plants. At the present time, similar experiments are being carried out with animals and it seems that the effect on cancerous animals is the same as on cancerous plants.

I am highly pleased to present my theory and the results of my work in a scientific review of the United States, this great country, which has always been in the lead in the fight against this terrible sickness, cancer, and whose sympathy and help I would greatly appreciate.

(Source: *Radio News*, 1925)

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